## Plant Transformation Core

More info: <https://research.missouri.edu/plant-transformation>

The goal of the Plant Transformation Core (PTC) at the University of Missouri is to enhance both basic and applied research in plant biology by providing fee-based plant transformation services. Currently, much of the transformation activities of the facility are focused on maize, sorghum, rice ,and soybean. However, the facility is well equipped for all aspects related to plant transformation, tissue culture, and plant growth to accept new species and genotypes. The Plant Transformation Core at the University of Missouri provides fee-based plant transformation and related services to internal customers, external customers, and commercial entities. The PTC along with stable transformation services also offers cloning services including the cloning of promoter, gene of interest, full cassette and CRISPR/Cas9, characterization and mutation analysis for genome editing events, and characterization of transgenic events, such as PCR-based analysis of transgene presence, southern blot analysis for transgene copy number determination, and qRT-PCR for transcript abundance assessment and flanking sequence analysis.